

GHS SAFETY DATA SHEET

Version No:3 Page 1 of 10

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

TRIACETIN

OTHER NAMES

CH3-COOCH2-CH(OOCCH3)CH2-OOCCH3, C9-H14-O6, "1, 2, 3-propanetriol triacetate", "glycerin triacetate", "triacetyl glycerine", Enzactin, Fungacetin, Glyped, Triacetine, Vanay

PRODUCT USE

Plasticizer for cellulose resins, fixative in perfumery, manufacture of cosmetics, speciality solvent, to remove carbon dioxide from natural gas, as topical antifungal.

Allowed for minor use in food as Food Additive 472(a)

SUPPLIER

Company: S D FINE- CHEM LIMITED

Address:

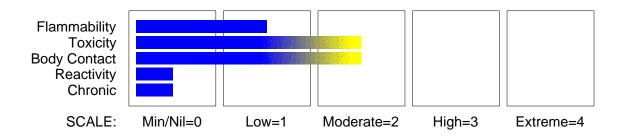
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HAZARD RATINGS



Section 2 - HAZARDS IDENTIFICATION

GHS Classification

Acute Toxicity (Oral) Category 4
Eye Irritation Category 2B

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EMERGENCY OVERVIEW

HAZARD

WARNING
Determined by using GHS criteria:
H302 H320
Harmful if swallowed
Causes eye irritation

PRECAUTIONARY STATEMENTS

Prevention

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists, get medical advice/attention.

Specific treatment: refer to Label or MSDS.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with relevant legislation.

NAME glyceryl triacetate CAS RN 99

Section 4 - FIRST AID MEASURES

SWALLOWED

- · If swallowed do NOT induce vomiting.
- · If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- · Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- · Seek medical advice.

Page 3 of 10 Section 4 - FIRST AID MEASURES

EYE

If this product comes in contact with the eyes:

- · Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- · If pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

If skin contact occurs:

- · Immediately remove all contaminated clothing, including footwear.
- · Flush skin and hair with running water (and soap if available).
- · Seek medical attention in event of irritation.

INHALED

- · If fumes or combustion products are inhaled remove from contaminated area.
- · Lay patient down. Keep warm and rested.
- · Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- · Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- · Transport to hospital, or doctor.

NOTES TO PHYSICIAN

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- · Water spray or fog.
- · Foam.
- · Dry chemical powder.
- BCF (where regulations permit).
- · Carbon dioxide.

FIRE FIGHTING

- · Alert Fire Brigade and tell them location and nature of hazard.
- · Wear breathing apparatus plus protective gloves.
- · Prevent, by any means available, spillage from entering drains or water courses.
- · Use water delivered as a fine spray to control fire and cool adjacent area.
- · DO NOT approach containers suspected to be hot.
- · Cool fire exposed containers with water spray from a protected location.
- · If safe to do so, remove containers from path of fire.
- · Equipment should be thoroughly decontaminated after use.

FIRE/EXPLOSION HAZARD

- · Combustible.
- Slight fire hazard when exposed to heat or flame.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO).
- May emit acrid smoke.
- · Mists containing combustible materials may be explosive.

Other combustion products include: carbon dioxide (CO2) and minor amounts of highly discomforting acrolein.

Page 4 of 10 Section 5 - FIRE FIGHTING MEASURES

FIRE INCOMPATIBILITY

Avoid contamination with strong oxidising agents as ignition may result.

Section 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

MINOR SPILLS

Clean up all spills immediately.

Wear impervious gloves and safety glasses.

Remove all ignition sources.

Wipe up and absorb small quantities with vermiculite or other absorbent material.

Place spilled material in clean, dry, sealable, labelled container.

MAJOR SPILLS

Remove all ignition sources.

Minor hazard.

- · Clear area of personnel.
- · Alert Fire Brigade and tell them location and nature of hazard.
- · Control personal contact by using protective equipment as required.
- · Prevent spillage from entering drains or water ways.
- · Contain spill with sand, earth or vermiculite.
- · Collect recoverable product into labelled containers for recycling.
- · Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
- · Wash area and prevent runoff into drains or waterways.
- · If contamination of drains or waterways occurs, advise emergency services.

EMERGENCY RESPONSE PLANNING GUIDELINES (ERPG)

The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to one hour WITHOUT experiencing or developing

life-threatening health effects is:

glyceryl triacetate 500 mg/m³

irreversible or other serious effects or symptoms which could impair an individual's ability to take

protective action is:

glyceryl triacetate 250 mg/m³

other than mild, transient adverse effects without perceiving a clearly defined odour is:

glyceryl triacetate 35 mg/m³

The threshold concentration below which most people will experience no appreciable risk of health effects:

glyceryl triacetate 12.5 mg/m³

American Industrial Hygiene Association (AIHA)

Ingredients considered according to the following cutoffs

Very Toxic (T+) >= 0.1% Toxic (T) >= 3.0%R50 >= 0.25% Corrosive (C) >= 5.0%

R51 >= 2.5% lse >= 10%

where percentage is percentage of ingredient found in the mixture

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

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Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

Remove all ignition sources.

- · Limit all unnecessary personal contact.
- · Wear protective clothing when risk of exposure occurs.
- · Use in a well-ventilated area.
- · When handling DO NOT eat, drink or smoke.
- · Always wash hands with soap and water after handling.
- Avoid physical damage to containers.
- Use good occupational work practice.
- · Observe manufacturer's storing and handling recommendations.

SUITABLE CONTAINER

Packaging as recommended by manufacturer.

Check that containers are clearly labelled.

Glass container.

Plastic container.

Metal can.

Plastic drum Steel drum.

STORAGE INCOMPATIBILITY

Avoid storage with oxidisers.

STORAGE REQUIREMENTS

- · Store in original containers.
- · Keep containers securely sealed.
- · No smoking, naked lights or ignition sources.
- · Store in a cool, dry, well-ventilated area.
- · Store away from incompatible materials and foodstuff containers.
- · Protect containers against physical damage and check regularly for leaks.
- · Observe manufacturer's storing and handling recommendations.

SAFE STORAGE WITH OTHER CLASSIFIED CHEMICALS















- +: May be stored together
- O: May be stored together with specific preventions
- X: Must not be stored together

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

The following materials had no OELs on our records

• glyceryl triacetate: CAS:102- 76- 1

Page 6 of 10 Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL DATA

No exposure limits set by NOHSC or ACGIH.

PERSONAL PROTECTION







EYE

- · Safety glasses with side shields.
- · Chemical goggles.
- · Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET

Suitability and durability of glove type is dependent on usage. Factors such as:

- · frequency and duration of contact,
- chemical resistance of glove material,
- · glove thickness and
- dexterity,

are important in the selection of gloves.

Wear chemical protective gloves, eq. PVC.

Wear safety footwear or safety gumboots, eg. Rubber.

OTHER

- · Overalls.
- · P.V.C. apron.
- · Barrier cream.
- · Skin cleansing cream.
- · Eye wash unit.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.

For further information consult your

Occupational Health and Safety Advisor.

ENGINEERING CONTROLS

None required when handling small quantities.

OTHERWISE: Use in a well-ventilated area.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in

Page 7 of 10 Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:

solvent, vapours, degreasing etc., evaporating

from tank (in still air)

aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) direct spray, spray painting in shallow booths,

drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)

grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high

initial velocity into zone of very high rapid

air motion).

Air Speed:

0.25- 0.5 m/s (50- 100 f/min)

0.5- 1 m/s (100- 200 f/min.)

1- 2.5 m/s (200- 500 f/min)

2.5- 10 m/s (500- 2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range

1: Room air currents minimal or favourable to

2: Contaminants of low toxicity or of nuisance value only

3: Intermittent, low production.

4: Large hood or large air mass in motion

Upper end of the range

1: Disturbing room air currents

2: Contaminants of high toxicity

3: High production, heavy use

4: Small hood - local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Clear liquid with a slight fatty odour and a bitter taste. Slightly soluble in water (61 g/l @ 20 C), miscible with alcohol, ether and other organic solvents.

PHYSICAL PROPERTIES

Liquid.

Mixes with water.

Molecular Weight: 218.23 Melting Range (°C): 3

Solubility in water (g/L): Miscible pH (1% solution): Not applicable Volatile Component (%vol): Nil @ 38 C. Relative Vapour Density (air=1): 7.52

Boiling Range (°C): 258

Specific Gravity (water=1): 1.16 @ 24 C.

pH (as supplied): Not applicable

Vapour Pressure (kPa): < 0.0013 @ 20 C

Evaporation Rate: Very, very slow Flash Point (°C): 148 (open cup)

continued...

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Lower Explosive Limit (%): 1.2 (calculated

Autoignition Temp (°C): 433

State: Liquid

Upper Explosive Limit (%): 7.9 (estimated) Decomposition Temp (°C): Not available.

Viscosity: Not Available

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY

- · Presence of incompatible materials.
- · Product is considered stable.
- · Hazardous polymerisation will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

Accidental ingestion of the material may be damaging to the health of the individual. Use as a food additive indicates tolerance of small amounts, but in large amounts material may cause severe irritant and toxic effects.

FYF

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

SKIN

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

INHALED

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of

Page 9 of 10 Section 11 - TOXICOLOGICAL INFORMATION

animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation hazard is increased at higher temperatures.

CHRONIC HEALTH EFFECTS

Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

At elevated temperatures the vapour may be irritating to the mucous membranes and respiratory tract.

TOXICITY AND IRRITATION

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

TOXICITY IRRITATION

Oral (rat) LD50: 3000 mg/kg [Manufacturer]*

Oral (mouse) LD50: 1100 mg/kg*

Section 12 - ECOLOGICAL INFORMATION

No data for glyceryl triacetate.

Section 13 - DISPOSAL CONSIDERATIONS

- · Consult manufacturer for recycling options and recycle where possible .
- · Consult State Land Waste Management Authority for disposal.
- · Incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

Section 14 - TRANSPORTATION INFORMATION

HAZCHEM: None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN, IATA, IMDG

Section 15 - REGULATORY INFORMATION

REGULATIONS

glyceryl triacetate (CAS: 102-76-1) is found on the following regulatory lists;
CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP
International Council of Chemical Associations (ICCA) - High Production Volume List
OECD Representative List of High Production Volume (HPV) Chemicals

Section 16 - OTHER INFORMATION

MSDS SECTION CHANGES

The following table displays the version number of and date on which each section was last changed.

Section Name Fire Fighter (fire fighting) Version Date 3 23- Jul- 2007

Section Name Personal Protection (other) Version Date 2 20- Jul- 2007 Section Name Acute Health (skin) Version

Date 23- Jul- 2007

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Fire Fighter (fire/explosion hazard)	3	23- Jul- 2007	Physical Properties	3	23- Jul- 2007	Acute Health (swallowed)	3	23- Jul- 2007
Storage (suitable container)	3	23- Jul- 2007	Acute Health (eye)	3	23- Jul- 2007	Chronic Health	3	23- Jul- 2007
Personal Protection (eye)	2	20- Jul- 2007	Acute Health (inhaled)	3	23- Jul- 2007	Transport	3	23- Jul- 2007
Personal Protection (hands/feet)	2	20- Jul- 2007	,					

The above information is believed to be accurate and represent the best information currently available to us, but does not represent any warranty expressed or implied of the properties of the product. User should make their own investigation to determine the suitability of the information for their particular purpose.

Issue Date: 23-Jul-2018